

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☒

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER NBU 1022-2E4CS			
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT NATURAL BUTTES			
4. TYPE OF WELL Gas Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES			
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.						7. OPERATOR PHONE 720 929-6515			
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL julie.jacobson@anadarko.com			
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ST UT ML 22651			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')			
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')			
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>			

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2127 FSL 750 FWL	NWSW	2	10.0 S	22.0 E	S
Top of Uppermost Producing Zone	2561 FNL 822 FWL	SWNW	2	10.0 S	22.0 E	S
At Total Depth	2561 FNL 822 FWL	SWNW	2	10.0 S	22.0 E	S

21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 822		23. NUMBER OF ACRES IN DRILLING UNIT 620	
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 559		26. PROPOSED DEPTH MD: 8728 TVD: 8650	
27. ELEVATION - GROUND LEVEL 5052		28. BOND NUMBER 22013542		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8496	

Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
SURF	11	8.625	0 - 2210	28.0	J-55 LT&C	0.2	Type V	180	1.15	15.8
							Class G	270	1.15	15.8
PROD	7.875	4.5	0 - 8728	11.6	I-80 LT&C	12.5	Premium Lite High Strength	280	3.38	11.0
							50/50 Poz	1190	1.31	14.3

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

NAME Andy Lytle	TITLE Regulatory Analyst	PHONE 720 929-6100
SIGNATURE	DATE 08/01/2011	EMAIL andrew.lytle@anadarko.com
API NUMBER ASSIGNED 43047517710000		
APPROVAL Permit Manager		

T10S, R22E, S.L.B.&M.

Found 1977
Brass Cap in
Pile of Stones,
Fence Post.

S89°59'39"E - 2658.67' (Meas.)

S89°57'E - 80.56 (G.L.O.)

S89°58'01"E - 2658.78' (Meas.)

Found 1977
Brass Cap,
Steel Post.

NORTH - 40.28 (G.L.O.)
N00°02'06"W - 2658.04' (Meas.)
20.275 (G.L.O.)
2561'

LOT 4

LOT 3

LOT 2

LOT 1

NBU 1022-2E4CS (Surface Position)

NAD 83 LATITUDE = 39.976546° (39° 58' 35.564")

LONGITUDE = 109.414002° (109° 24' 50.409")

NAD 27 LATITUDE = 39.976580° (39° 58' 35.688")

LONGITUDE = 109.413320° (109° 24' 47.954")

NBU 1022-2E4CS (Bottom Hole)

NAD 83 LATITUDE = 39.978233° (39° 58' 41.640")

LONGITUDE = 109.413752° (109° 24' 49.508")

NAD 27 LATITUDE = 39.978268° (39° 58' 41.764")

LONGITUDE = 109.413070° (109° 24' 47.053")

Bottom of
Hole

822'

Found 1991
Aluminum Cap
with Pile of
Stones.

750'

Well Surface
Position

**WELL LOCATION:
NBU 1022-2E4CS**

ELEV. UNGRADED GROUND = 5051.6'

N0°10'W - 40.06 (G.L.O.)
2643.82' (Measured)

N00°11'35"W (Basis of Bearings)

LOT 5

LOT 7

LOT 8

N54°08'E
13.75 (G.L.O.)
2
S30°55'E - 20.40 (G.L.O.)
7
N30°55'W
20.40 (G.L.O.)
6
S89°59'W - 80.04 (G.L.O.)
13.75 (G.L.O.)
S54°05'W
20.40 (G.L.O.)
3

ALLOTMENT No.265
No.16 ATCHIE

W.C. $\frac{1}{4}$ N89°59'E
6.02 (G.L.O.)
6.05
W.C. Set Stone

Found 1991
Aluminum Cap,
Steel Post &
Pile of Stones.

(Measured to Witness Corner)
N89°55'57"W - 3073.93'

S89°58'17"W - 2247.80'

Found 1991
Aluminum Cap,
Pile of Stones.

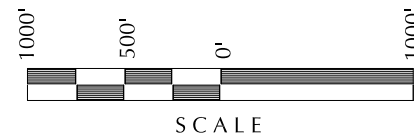
N00°00'47"W - 2623.27' (Meas.)
N0°01'E - 39.75 (G.L.O.)

Found 1991 Aluminum
Cap with Pile of
Stones. Fence Post
on SE side of Cap.

NOTES:

▲ = Section Corners Located

- Well footages are measured at right angles to the Section Lines.
- G.L.O. distances are shown in feet or chains.
1 chain = 66 feet.
- The Bottom of hole bears N06°28'35"E - 618.94' from the Surface Position.
- Bearings are based on Global Positioning Satellite observations.
- Basis of elevation is Tri-Sta "Two Water" located in the NW $\frac{1}{4}$ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PROFESSIONAL LAND SURVEYOR
REGISTRATION NO. 6028691
STATE OF UTAH
1-28-11

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD: NBU 1022-2L

**NBU 1022-2E4CS
WELL PLAT**

**2561' FNL, 822' FWL (Bottom Hole)
SW $\frac{1}{4}$ NW $\frac{1}{4}$ OF SECTION 2, T10S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH.**



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TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 01-10-11	SURVEYED BY: R.Y.	SHEET NO:
DATE DRAWN: 01-26-11	DRAWN BY: E.M.S.	6
SCALE: 1" = 1000'	Date Last Revised:	6 OF 18